



GUANGZHOU SANJING ELECTRIC CO., LTD.

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H1 HYBRID SOLAR INVERTER

H1-3K/3.6K/4K/4.6K/5K/6K-S2

H1-4.6K/5K/6K-LS2



-  **UPS** With UPS function, switch time $\leq 10\text{ms}$
-  **DC 12.5A**, matches glass-glass modules
-  **Easy setting** of smart working modes
-  **100A** charge current
-  **Comfortable & noiseless**

Technical Data

H1-3K/3.6K/4K/4.6K/5K/6K-S2; H1-4.6K/5K/6K-LS2

Type	H1-3K-S2	H1-3.6K-S2	H1-4K-S2	H1-4.6K-LS2	H1-4.6K-S2	H1-5K-LS2	H1-5K-S2	H1-6K-LS2	H1-6K-S2
Input DC									
Max. PV Array Power [Wp] @STC	4500	5400	6000	6900	6900	7500	7500	9000	9000
Max. DC Voltage [V]	600								
MPPT Voltage Range [V]	90-550								
Nominal DC Voltage [V]	360								
Start Voltage [V]	120								
Min. DC Voltage [V]	80								
Max. DC Input Current [A]	12.5/12.5								
Max. DC Short Circuit Current [A]	15/15								
Number of MPPT	2								
DC Switch	Integrated								
Battery Parameters									
Battery Type	Lithium battery								
Rated Input Voltage/Voltage Range [V]	48/42~58.5								
Max/Rated Charging Current [A]	60/60				100/100	60/60	100/100	60/60	100/100
Charging Mode Control	3-stages								
Grid Parameters									
Rated Output Power [W]	3000	3680	4000	4600	4600	5000 ^{*1}	5000 ^{*1}	6000	6000
Max.Output Power [VA]	3000	3680	4000	4600	4600	5000	5000	6000	6000
Rated Output Current [A]	13.1	16.0	17.4	20.0	20.0	21.8 ^{*2}	21.8 ^{*2}	26.1	26.1
Max. Output Current [A]	13.6	16.7	18.2	20.9	20.9	22.7	22.7	27.3	27.3
Rated Grid Voltage/Range [V]	220,230,240/180~280								
Rated Grid Frequency/Range [Hz]	50,60/±5								
Power Factor [cos φ]	0.8 leading~0.8 lagging								
Total Harmonic Distortion [THDi]	< 3%								
Feed-in	L+N+PE								
AC Output [Back-up Mode]									
Max. Output Power [VA]	3000				4600	3000	5000	3000	5000
Peak Output Apparent Power [VA]	3600 ,10sec				5500 ,10sec	3600 ,10sec	6000 ,10sec	3600 ,10sec	6000 ,10sec
Output Voltage [V]	220/230/240								
Output Frequency [Hz]	50/60								
Total Harmonic Distortion of Voltage	< 3%								
Efficiency									
Max. Efficiency	97.6%								
Euro Efficiency	97.0%								
Max. Battery to Load Efficiency	94.6%								
Protection									
AC Short-circuit Protection	Integrated								
Overload Protection	Integrated								
DC Overvoltage/Undervoltage Protection	Integrated								
AC Overvoltage/Undervoltage Protection	Integrated								
AC Overfrequency/Underfrequency	Integrated								
Peak-to-trough Period Setting	Integrated								
Interface									
PV Input	MC4								
Battery	Terminal Block								
Display	LCD								
Communication Mode	Wi-Fi/GPRS/Ethernet(Optional)								
General Data									
Operating Temperature Range	-25°C to +60°C [45°C to 60°C with derating]								
Cooling Method	Natural Convection								
Ambient Humidity	0-100% Non-condensing								
Altitude	4000m (>3000m power derating)								
Noise [dBA]	<29								
Ingress Protection	IP65								
Dimensions [H*W*D] [mm]	470*470*190								
Weight [kg]	23								
Standard Warranty [Year]	5								
Applicable Standard	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, EN50549, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, AS4777.2, CQC NB/T 32004, VDE-AR-N 4105								

Remarks: ^{*1} For AS/NZS 4777.2 Rated Output Power is 4999VA. ^{*2} For AS/NZS 4777.2 Rated Output Current is 21.7A.